

ABSTRACT

5 The liquid crystal display apparatus according to  
the present invention includes a) the direction of the  
twist angle of molecule orientation of the twisted phase  
difference board (3) is reverse to the direction of the  
twisted orientation of the liquid crystal molecule of the  
liquid crystal devices (2), and the twist angle of the  
twisted phase difference board is smaller than the twist  
10 angle of the liquid crystal devices (2) by  $10^\circ$  to  $40^\circ$ ; b)  
an angle between the liquid crystal molecule-oriented  
direction of the alignment film (23a) of the second  
substrate and the molecule-oriented direction of a lower  
polymer (32b) of the liquid crystal polymer layer lies in  
15 the range of  $80^\circ$  to  $90^\circ$ ; c) an angle between an  
absorption axis of the first polarization board (1) and  
the liquid crystal molecule-oriented direction of the  
alignment film (23b) of the first substrate side lies in  
the range of  $50^\circ$  to  $60^\circ$ ; d) an angle between the  
20 absorption axis of the second polarization board (4) and  
the molecule-oriented direction of an upper polymer (32a)  
of the liquid crystal polymer lies in the range of  $30^\circ$  to  
 $40^\circ$ ; and e) the relationship between  $\Delta n_1$  of the nematic  
liquid crystal layer and  $\Delta n_2$  of the liquid crystal  
25 polymer layer is defined in a particular relationship, so  
that it is possible to resolve colored image on the  
display and to realize an image quality having a high  
contrast.